Planetary Architectures: A Phenomenological Framework for Tri-Layer Earth Coherence

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Abstract

This whitepaper consolidates three independently defined phenomenological models describing Earth as a nested regulatory system composed of the lithosphere, hydrosphere, and atmosphere. The framework emphasizes correlation, bounded probability mappings, and thermodynamic compliance without introducing new physical laws.

1. Hydrosphere: Water Memory Tensor

The Water Memory Tensor (M_{aq}) models liquid water as a dipolar molecular network capable of sustaining structured configurations over finite timescales. This model is phenomenological and correlates coherence with spectroscopic and electromagnetic observables.

2. Lithosphere: Gravitational Breath

The Gravitational Breath model describes localized weight variance (ΔW_{loc}) arising from slow planetary-scale mass redistribution. It does not modify Newtonian gravity and is framed as an effective phenomenological observation.

3. Atmosphere: Plasma–Carbon Interaction

Atmospheric coherence is quantified via a dimensionless interaction cross-section representing the detectability of coherent plasma structures under varying thermal and electromagnetic conditions.

Appendix A: Test Procedures

Each subsystem includes falsifiable test procedures using optical, electromagnetic, and gravimetric instrumentation. Cross-modal correlation is required for admissibility.

Appendix B: Unified Coherence Summary

A dimensionless coherence index (Ξ) summarizes the relative alignment of the three layers. This index is descriptive only and introduces no causal dynamics.